

GILA RIVER BASIN

09503000 GRANITE CREEK NEAR PRESCOTT, AZ

LOCATION--Lat 34° 34', long 112° 27', in SW_{1/4} sec. 26, T.14 N., R.2 W., (unsurveyed), Yavapai County, Hydrologic Unit 15060202, at bridge on U.S. Highway 89, 2 mi north of Prescott and 4.5 mi upstream from Willow Creek.

DRAINAGE AREA--36.3 mi².

PERIOD OF RECORD--July 1932 to Sept. 1947, Oct. 1994 to current year.

REVISED RECORDS--WDR AZ-98-1: 1997

GAGE--Water-stage recorder. Datum of gage is 5,204.29 ft above sea level from surveyed bench-mark elevation and levels survey.

REMARKS--No estimated daily discharges. Records fair. Flow is partly regulated by Goldwater Reservoirs on Bannon Creek.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 3,200 ft³/s Mar. 6, 1995, gage-height 8.90 ft, from slope-conveyance survey. No flow for many days.

EXTREMES OUTSIDE PERIOD OF RECORD--Flood of Aug. 19, 1963, discharge of 6,600 ft³/s, gage height 9.4 ft (original gage height of 12.4 ft with datum correction), from contracted opening survey.

EXTREMES FOR CURRENT YEAR--Peak discharges greater than base discharge of 400 ft³/s (revised) and (or) maximum (*):

| | Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--|---------------|------|--------------------------------|------------------|----------------|------|--------------------------------|------------------|
| | July 13 | 1715 | 1,060 | 6.71 | Sept. 6 | 2117 | 994 | 6.61 |
| | July 23 | 2000 | 591 | 5.92 | Sept. 10 | 2217 | *1,570 | *7.36 |

Minimum daily discharge, no flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|
| 1 | 0.05 | 0.08 | 1.2 | 0.26 | 0.22 | 0.22 | 0.22 | 0.14 | 0.07 | 0.00 | 0.18 | 0.00 |
| 2 | 0.05 | 0.08 | 1.2 | 0.22 | 0.22 | 0.22 | 0.22 | 0.14 | 0.05 | 0.00 | 0.18 | 0.00 |
| 3 | 0.04 | 0.08 | 1.2 | 0.22 | 0.22 | 0.22 | 0.22 | 0.14 | 0.04 | 0.00 | 0.17 | 0.00 |
| 4 | 0.04 | 0.08 | 3.1 | 0.22 | 0.22 | 0.22 | 0.22 | 0.14 | 0.03 | 0.00 | 17 | 0.00 |
| 5 | 0.03 | 2.3 | 0.75 | 0.22 | 0.22 | 0.22 | 0.22 | 0.14 | 0.02 | 0.01 | 0.94 | 0.00 |
| 6 | 0.04 | 0.15 | 0.23 | 0.22 | 0.22 | 0.22 | 3.2 | 0.14 | 0.01 | 0.00 | 0.34 | 65 |
| 7 | 3.6 | 0.11 | 0.22 | 0.22 | 0.22 | 0.22 | 0.28 | 0.14 | 0.00 | 0.00 | 0.21 | 131 |
| 8 | 25 | 0.11 | 0.22 | 0.22 | 0.22 | 0.22 | 0.17 | 0.14 | 0.00 | 0.00 | 0.19 | 17 |
| 9 | 0.49 | 0.11 | 0.22 | 0.22 | 0.22 | 0.22 | 0.14 | 0.14 | 0.00 | 0.00 | 0.18 | 7.3 |
| 10 | 0.12 | 0.11 | 0.22 | 0.22 | 0.22 | 0.22 | 0.14 | 0.14 | 0.00 | 0.00 | 0.16 | 91 |
| 11 | 0.08 | 0.11 | 0.22 | 0.22 | 0.22 | 0.22 | 0.14 | 0.14 | 0.00 | 1.1 | 0.13 | 40 |
| 12 | 0.07 | 0.11 | 0.27 | 0.22 | 0.22 | 0.22 | 0.14 | 0.14 | 0.00 | 0.01 | 0.10 | 4.1 |
| 13 | 0.05 | 0.11 | 0.22 | 0.22 | 0.22 | 0.22 | 0.14 | 0.14 | 0.00 | 50 | 0.06 | 2.5 |
| 14 | 0.05 | 0.11 | 0.22 | 0.22 | 0.25 | 0.22 | 0.14 | 0.14 | 0.00 | 2.2 | 0.02 | 2.3 |
| 15 | 0.05 | 0.11 | 0.25 | 0.22 | 0.27 | 0.22 | 0.14 | 0.14 | 0.00 | 0.18 | 0.01 | 2.0 |
| 16 | 0.05 | 0.11 | 0.26 | 0.23 | 0.27 | 0.22 | 0.14 | 0.14 | 0.00 | 0.50 | 0.00 | 1.8 |
| 17 | 0.05 | 0.11 | 0.22 | 0.25 | 0.22 | 0.22 | 0.14 | 0.13 | 0.00 | 0.77 | 0.00 | 1.4 |
| 18 | 0.05 | 0.11 | 0.22 | 0.22 | 0.22 | 0.22 | 0.14 | 0.12 | 0.00 | 0.31 | 0.00 | 1.4 |
| 19 | 0.05 | 0.11 | 0.22 | 0.22 | 0.25 | 0.22 | 0.14 | 0.14 | 0.00 | 0.26 | 0.00 | 1.3 |
| 20 | 0.05 | 0.13 | 0.22 | 0.22 | 0.22 | 0.22 | 0.14 | 0.11 | 0.00 | 0.16 | 0.00 | 1.3 |
| 21 | 0.05 | 0.14 | 0.22 | 0.22 | 0.22 | 0.22 | 0.15 | 0.11 | 0.00 | 0.13 | 0.00 | 1.2 |
| 22 | 0.05 | 0.23 | 0.22 | 0.25 | 0.22 | 0.22 | 0.18 | 0.11 | 0.00 | 0.11 | 0.00 | 1.2 |
| 23 | 0.05 | 0.37 | 0.22 | 0.27 | 0.22 | 0.22 | 0.16 | 0.11 | 0.00 | 47 | 0.00 | 1.2 |
| 24 | 0.05 | 0.38 | 0.22 | 0.23 | 0.22 | 0.22 | 0.15 | 0.11 | 0.00 | 12 | 0.00 | 1.2 |
| 25 | 0.05 | 0.61 | 0.22 | 0.22 | 0.22 | 0.22 | 0.16 | 0.11 | 0.00 | 1.4 | 0.00 | 1.1 |
| 26 | 0.05 | 0.92 | 0.22 | 0.22 | 0.22 | 0.22 | 0.14 | 0.11 | 0.00 | 0.41 | 0.00 | 1.1 |
| 27 | 0.05 | 0.98 | 0.22 | 0.23 | 0.22 | 0.22 | 0.16 | 0.11 | 0.00 | 0.21 | 0.00 | 1.1 |
| 28 | 0.05 | 0.98 | 0.22 | 0.23 | 0.22 | 0.22 | 0.17 | 0.10 | 0.00 | 0.18 | 0.00 | 1.1 |
| 29 | 0.05 | 0.98 | 0.80 | 0.23 | --- | 1.5 | 0.14 | 0.09 | 0.00 | 0.18 | 0.00 | 1.1 |
| 30 | 0.05 | 1.2 | 0.64 | 0.22 | --- | 0.42 | 0.14 | 0.08 | 0.00 | 0.18 | 0.00 | 0.88 |
| 31 | 0.06 | --- | 0.27 | 0.22 | --- | 0.27 | --- | 0.07 | --- | 0.18 | 0.00 | --- |
| TOTAL | 30.57 | 11.12 | 14.35 | 6.99 | 6.32 | 8.35 | 7.98 | 3.82 | 0.22 | 117.46 | 19.86 | 380.58 |
| MEAN | 0.986 | 0.371 | 0.463 | 0.225 | 0.226 | 0.269 | 0.266 | 0.123 | 0.007 | 3.789 | 0.641 | 12.69 |
| MAX | 25 | 2.3 | 3.1 | 0.27 | 0.27 | 1.5 | 3.2 | 0.14 | 0.07 | 50 | 17 | 131 |
| MIN | 0.03 | 0.08 | 0.22 | 0.22 | 0.22 | 0.22 | 0.14 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| AC-FT | 61 | 22 | 28 | 14 | 13 | 17 | 16 | 7.6 | 0.4 | 233 | 39 | 755 |
| CFSM | 0.03 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.10 | 0.02 | 0.35 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| MEAN | 1.377 | 0.685 | 2.535 | 4.992 | 18.24 | 23.13 | 7.767 | 1.058 | 0.271 | 2.756 | 4.059 | 3.390 |
| MAX | 15.2 | 4.10 | 32.9 | 35.4 | 159 | 79.2 | 67.2 | 7.03 | 1.59 | 32.0 | 23.0 | 17.1 |
| (WY) | 2001 | 2001 | 1941 | 1941 | 1937 | 1941 | 1941 | 1941 | 1999 | 1999 | 2000 | 1999 |
| MIN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| (WY) | 1933 | 1933 | 1934 | 1934 | 1934 | 1934 | 1934 | 1935 | 1933 | 1934 | 1947 | 1932 |

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1932 - 2002

| | | | | | | |
|--------------------------|---------|--------|--------|-------|-------|------------|
| ANNUAL TOTAL | 1381.51 | | 607.62 | | 5.766 | |
| ANNUAL MEAN | 3.785 | | 1.665 | | 24.2 | 1941 |
| HIGHEST ANNUAL MEAN | | | | | 0.37 | 1935 |
| LOWEST ANNUAL MEAN | | | | | 0.00 | 1932 |
| HIGHEST DAILY MEAN | 169 | Mar 10 | 131 | Sep 7 | 1450 | Feb 7 1937 |
| LOWEST DAILY MEAN | 0.00 | Jul 15 | 0.00 | Jun 7 | 0.00 | Jul 1 1932 |
| ANNUAL SEVEN-DAY MINIMUM | 0.00 | Jul 15 | 0.00 | Jun 7 | 0.00 | Jul 4 1932 |
| ANNUAL RUNOFF (AC-FT) | 2740 | | 1210 | | 4180 | |
| ANNUAL RUNOFF (CFSM) | 0.10 | | 0.046 | | 0.16 | |
| 10 PERCENT EXCEEDS | 9.9 | | 1.1 | | 10 | |
| 50 PERCENT EXCEEDS | 0.37 | | 0.19 | | 0.22 | |
| 90 PERCENT EXCEEDS | 0.01 | | 0.00 | | 0.00 | |